

## **04000 - MASONRY**

### DESIGN

- A. Designer of all masonry building elements shall comply with all requirements of the FCSIM if applicable. However, where practicable, load bearing masonry walls shall be designed in accordance with the empirical design method in order to keep the structure from being classified as a critical structure by the FCSIM.
- B. Additions and alterations to existing structures shall be designed with matching mortar color, joint type, masonry color and texture, and masonry coursing pattern for all exposed masonry elements. Rake joints are not acceptable.
- C. All exterior brick shall be 3000 PSI, Grade SW.
- D. Mortar shall comply with ASTM C270 with minimum compressive strength of 750 PSI (higher compressive strength to be specified by mortar type as required). Contractor is required to hire a testing lab to take and test mortar cubes.
- E. Glass block shall not be used on exterior walls without written approval of DPWES.

### SHOP DRAWING:

- A. Project specifications shall specifically require compliance with all applicable requirements of the FCSIM, where applicable. Any requirements of the FCSIM which are not specifically identified as a requirement of the Contractor shall be considered to be a requirement of the Architect and the Structural Engineering consultant.
  - 1. Project specifications shall state that Contractor is not authorized to proceed with manufacture or procurement of masonry elements or mortar until all related shop drawings, mix designs, and color samples are approved; and any required mock-ups are constructed and approved.